R-3201
ALKYLATOR

DIMENSION: , 4700.0 mm ID X 48400.0 mm T-T
DESIGN P AND T: 26.97 kg/cm^2g AND 300.0 C
MINIMUM P AT T: /FV
TYPE AND MATL OF TRAY: - 410 S.S.
MATERIAL OF CONSTRUCTION: CS
INSULATION TYPE AND THICK: HC - 64.0 mm (SHELL)
- (HEAD)

PSET=28.00 kg/cm^2g

32-P1-EF-014 10999 FC-32030
32-P1-EF-005 1541 FC-32013
32-P1-EF-012 11289 PY-32900
32-P1-EF-014 1455 PV-32002B
32-P1-EF-014 9089 PV-32002A
HC 32042
PY 32002
PC 32002C
PC 32002B
PC 32002A
FOR START UP
SIPHON BREAKER
NNF (DO NOT POCKET)
HAP P-32102-6"-NBZ3-HC38.0 mm-NT
PDI 32001
PDT 32001
PI 32003
PT 32003
VC-31
PACKING
Trim: TR-32001-NBZ3 HAP-HC
HHLL=27090.0 mm
HLL=26590.0 mm
NLL=25590.0 mm
LLL=22890.0 mm
LLLL=22390.0 mm
LT 32002
LG 32002
MAG
LT 32003Y
DETAIL "O2"
IPL
32-P1-EF-006 1403 FC-32021
LC 32002
PDI 32005
PY 32005
EB/SM
DC-31
TW 32005
TI 32005
TUT 32300
RTD
TW 32007
TI 32007
TW 32009
TI 32009
TW 32010
TI 32010
TW 32011
TI 32011
TW 32004
TI 32004
TW 32006
TI 32006
TW 32008
TI 32008
BED 5
BED 4
BED 3
BED 2
BED 1
SPARGER
SPARGER.
MD TRAYS
10
9
8
1
HHLL = 5650MM
HLL = 5150MM
NLL = 3650MM
LLL = 900MM
LLLL = 400MM
T.L=10500MM
24"x20"
ETHYLENE
1711 32-P1-EF-002
FV-32006
VOC
P-32001-12"-XB2A-N -NT
HAP
P-32204-12"-NBZ3-N -NT
ETHYLENE
1712 32-P1-EF-002
FV-32008
P-32202-12"-NBZ3-N -NT
CWR
5587
33-P1-EF-553
CWR-32027-0.75"-A-N -NT
P-32307-0.75"-NBZ3-HC38.0 mm-ET
32-P1-EF-018 1560
SC-3-3208
CWS
5588
33-P1-EF-553
CWS-32027-0.75"-A-N -NT
P-32041-20"-NBZ3-HC51.0 mm-NT
TRANSALKYLATOR EFFLUENT
1367 32-P1-EF-010
R-3202
P-32036-8"-XD1JA-HC51.0 mm-NT
PDI 32006
PDT 32006
P-32534-12"-NBZ3-HC51.0 mm-NT
TC 32002
TT 32002
32-P1-EF-004 1245 FC-32010
TW 32207
TW 32002
TI 32207
TI 32116
LT 32032X
DETAIL "O1"
D/P
ALKYLATOR BTMS
32-P1-EF-003 1366
P-3201A/B
P-32037-20"-NBZ3-HC64.0 mm-NT
PI 32007X
PI 32007Y
PI 32007Z
ESD-5 32102
PT 32007X
PT 32007Y
PT 32007Z
2OO3
PT 32002
DETAIL "O2"
8T10
PRD 32001
PRD 32041
NBZ3 EBZ CSO
16"x8" 24"x10"
16" CSO
PSET=28.00 kg/cm^2g
HAP V-32030-24"-EBZ-HC38.0 mm-ET
HAP V-32107-24"-EBZ-HC38.0 mm-ET
FLARE 3230 32-P1-EF-112
FLARE 13872 32-P1-EF-112
SLOPE 1000.0 mm/500.0 m
TUI 32301
TUT 32301
TI 32012
TW 32012
RTD
HAP P-32004-24"-NBZ3-HC51.0 mm-NT
ALKYLATOR EFFLUENT
1336 32-P1-EF-005
E-3202
HAP P-32528-16"-NBZ3-HC51.0 mm-ET
XB2A NBZ3
MIN
8"
1"
HAP P-32008-12"-NBZ3-HC38.0 mm-NT
ALKYLATOR REFLUX
32-P1-EF-006 1215
P-3202A/B & P-3203A/B
N1
HAP P-32020-10"-XD1JA-HC51.0 mm-NT
FINISHING REACTOR BLOWDOWN
32-P1-EF-016 1328
R-3203
2 PHASE
FREE DRAINING
NH-32001-8"-N1-HC38.0 mm-NT
STEAM / NITROGEN PURGE
32-P1-EF-109 1251
E-3226
NNF
SHUT-DOWN PURGING
FC 32890
FT 32890
FV 32890
FY 32890
FE 32890
4"x2"
P-32261-4"-XB2A-N -NT
C2 FEED BYPASS
32-P1-EF-002 10846
ETHYLENE FEED
VOC
P-32001-12"-XB2A-N -NT
ETHYLENE
32-P1-EF-002 1409
FV-32005
ETHYLENE
32-P1-EF-002 1424
FV-32007
ACTUAL ETHYLENE FLOW RATE
32-P1-EF-002 1399
FY-32003A
FY 32004
FFI 32004
FC 32002
FT 32002
FE 32002A
FT 32034Y
FT 32034Z
FY 32002
FV 32002
FT 32034X
FE 32002B
MIN. 8D
FI 32034X, 32034Y, 32034Z
DH-32116-2"-E-N -NT
WASTEWATER
4843
33-P1-EF-534
EB/SM SEWER
HAP P-32042-4"-XD1JA-PP38.0 mm-NT
FINISHING REACTOR VENT
32-P1-EF-016 1397
R-3203
P-32001-12"-XB2A-N -NT
ETHYLENE
32-P1-EF-002 1396
HAP P-32155-24"-NBZ3-HC64.0 mm-NT
ALKYLATOR BTMS
32-P1-EF-003 1377
F-3201
1404 32-P1-EF-018
FC-32001
HAP P-32027-10"-NBZ3-HC64.0 mm-NT
ALKYLATOR BTMS
1189 32-P1-EF-018
C-3201
HAP P-32201-12"-NBZ3-N -NT
HAP P-32203-12"-NBZ3-N -NT
HAP P-32040-18"-NBZ3-HC64.0 mm-NT
HAP P-32205-12"-NBZ3-N -NT
LI 32003X
LI 32003Y
LI 32003Z
LI 32032Y, 32032X
ESD-5 32101
ESD-5 32102
2OO2
ALKYLATOR OVERHEAD PRESSURE CONTROL
OPEN
CLOSED
FV-32003
FV-32003B
0
100%
PC-32002C OUTPUT

NOTES:
1. TOP OF SEAL LOOP TO BE AT LEAST 5M ABOVE HLL IN R-3201.
2. TO MEASURE THE LIQUID TEMPERATURE FROM TRAY TO DOWNCOMER.
3. SYMMETRICAL PIPING.
4. COMMON ALARM OF EACH HEAT TRACE LOCAL PANEL IS PROVIDED ON DCS.
5. FFI-32004 INDICATES ALKYLATE TOTAL ETHYLENE FLOW RATIO IN WEIGHT.
6. CONTROL VALVE STATION TO BE LOCATED AT GRADE & AT BOTTOM OF SEAL LOOP.
7. HEIGHT BASED ON PUMP P-3201A/B NPSH REQUIREMENTS.
8. DELETED.
9. VALVE TO BE AT MINIMUM DISTANCE FROM SC.
10. ROUTE LEVEL BRIDLE DRAINS TO EB/SM SEWER AND VENT TO FLARE.
11. MAINTENANCE VALVE FOR STEAMING COLUMN.
12. DOWNSTREAM OF SPECTACLE BLIND SHALL BE SLOPED.
13. DELETE.
14. DURING PG ETHYLENE MODE ALKYLATOR PRESSURE WILL BE CONTROLLED BY PC-32030
15. HIGH LEVEL ALARMS ON LI32003X/Y/Z ARE IPL ALARMS

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.	
10	14.Apr.-2021	REVISED AS PER MOC JCP-P-9035	MRH	CSK	HBK	FOR NEW JCP LEGEND AND SYMBOLS SEE DRAWINGS:
09	02.Jul.-2015	REVISED FOR IPL IDENTIFICATION	PTB	JRB	KMN	JCP-00-P1-EF-001 THRU JCP-00-P1-EF-039
08	10.Jul.-2014	AS PER MOC JCP-P-2222	MRH	AM	KMN	FOR EXISTING SCP LEGEND AND SYMBOLS SEE DRAWINGS:
07	07.May.-2014	REVISED AS PER MOC JCP-P-P-896	HER	S.K	KMN	JCP-00-D-00-00001 THRU JCP-00-D-00-00023
06	20.Feb.-2014	REVISED AS PER MOC	AM	DF		FOR EXISTING PORT LEGEND AND SYMBOLS SEE DRAWINGS:
11	01.Sep.-2022	REVISED AS PER MOC-21-5695	MRH	CSK	GMM	JCP-00-D-00-00001P THRU JCP-00-D-00-00012P
						REFERENCE DRAWING

CONFIDENTIAL INFORMATION - REPRODUCTION AND USE PROHIBITED EXCEPT IN ACCORDANCE WITH COMPANY
EPC CONTR JGC
MANAGING CONTRACTOR PARSONS E&C

JCP

	INITIAL	DATE
DRAWN	PEC	04.Feb.-2003
CHECKED		
CONTRACTOR APPROVAL	RRC	
	JM	
JCP APPROVAL	HU	
SCP REVISION		

TITLE
PIPING AND INSTRUMENT DIAGRAM
ALKYLATOR

SCALE	PROJECT NO.	CONTRACT NO. / WORK ORDER NO.	DWG. NO.	REV
NONE	156217	D-032-1225-001 0-3515-2	JCP-32-P1-EF-001	11

FILE NAME : JCP-32-P1-EF-001